

2026 Topics in Clinical Education & Laboratory Operations

This presentation provides a summary of the 2026 curriculum as presented during clinical orientation and illustrations on how to complete the application activity documents posted to your individual student folder in the **LAB** SharePoint site.

12/26/25

Acknowledgement:

Caroline VanDenBrouck, MLS Graduate, Nov. 2025

Presentation Objectives:

Upon completion of this module, the learner will be able to **successfully complete** the following objectives:

1. Comply with **neat and orderly completion** of the various application activities that are part of the **Clinical Education & Laboratory Operations** curriculum. *This will be illustrated via **exemplary** examples from a November 2025 graduate.*
2. Describe the **2026 curriculum revisions** and **expectations**.
3. Reread the **Clinical Education & Laboratory Operations syllabus** for complete comprehension of the curriculum expectations summarized in this presentation.

Part I – 2026 Curriculum Overview & Completion Guidelines

2026 Special Topics Curriculum Overview:

1. View **each** presentation posted in the Special Topics SharePoint site.
 - The format may be a simple PDF, narrated PPT and/or MP4 video.
 - Choose the one that best suits your learning style.
 - These are accessible for off-site, remote viewing 24/7.
2. Complete the review quiz for **each** presentation – **AFTER** viewing the presentation.
 - These are also accessible for off-site completion via your MTS account.
 - Quizzes cannot be reset.
 - The overall average scores from all quizzes will be factored into your Laboratory Operations grade for your MLS program transcript.

2026 Special Topics Syllabus

TOPICS IN CLINICAL EDUCATION & LABORATORY OPERATIONS SYLLABUS 2026 CLASSES (Student version with highlights)

Updated: 12/17/2025

DESCRIPTION / INTRODUCTION:


This portion of the MLS program curriculum is a collection of presentations designed to introduce students to the principles, concepts and practical strategies used in clinical laboratory education and laboratory operations (management) as prescribed in the NAACLS *Standard VIII Curriculum Matrix*. Review quizzes and application activities have been designed to aid student retention of the material for future ASCP BOC certification examination questions as well as future clinical practice. Students are to complete this asynchronous learning at their own pace by the end of the program.

GOALS / LEARNING OUTCOMES:

1. To introduce the student to education theory and methodologies as it applies to clinical laboratory education.
2. To provide the student with an opportunity to apply the components of competency-based education in the development and delivery of a formal presentation for the Education & Research and/or Process-Improvement assignment(s).
3. To introduce the student to various aspects of clinical laboratory operations and management.
4. To allow the student an opportunity to explore the various clinical laboratory trends and career options presented by the study of these topics.
5. To aid the student in preparing for the "Laboratory Operations" segment of the ASCP BOC certification examination.

- This MLS program curriculum component is described in the syllabus provided during clinical orientation.
- Please review the syllabus again before beginning any presentations.

2026 Special Topics Checklist

 <div>Ver. 7_Dec.2025</div>					
SCHOOL OF MEDICAL LABORATORY SCIENCE Department of Clinical Pathology, William Beaumont University Hospital, Royal Oak					
TOPICS IN CLINICAL EDUCATION & LABORATORY OPERATIONS CHECKLIST May 2026 Class					
Directions: <ul style="list-style-type: none"> Complete the indicated presentations, review quizzes <u>and</u> activities that are highlighted below. Note: Application activities are described on the next page (see reverse). Note: Some narrated or video lecture files may need to be downloaded to desktop for easier viewing. Students may request a 2-week extension after graduation to complete these assignments, if preferred. 					
	TOPIC	RECORDED LECTURE	REVIEW QUIZ (MTS)	APPLICATION ACTIVITY --->	DUE DATE
CLINICAL EDUCATION					
1	Education Principles and Domains of Learning	X	X	X	WK 27
2	Competency Based Education: Goals, Competencies, Learning Objectives	X	X	X	WK 28
3	Testing – Written, Practical and Performance Evaluation	Read PPT	X	X	WK 29
4	Effective PowerPoint Presentations	Read PPT	X		WK 38
5	Interprofessional Education * (CHE & CHW versions)			X #	Hem
6	Education & Research Presentation *	Read Articles		X	WK 44
7	Certification Exams and Credential Maintenance	X	X		WK 40
LABORATORY OPERATIONS					
8	Phlebotomy & Pre-Analytical Aspects of Laboratory Testing *	X	X	X #	Micro
9	Communications & Team Building	X	X		WK 30
10	Introduction to Management	X	X	X	WK 31
11	Healthcare Information Systems	X	X		WK 32
12	Continuous Quality Improvement Process * (MP/ATL week)	X	X	X	Micro
13	Competency Assessment & Proficiency Testing Regulations	X	X		WK 33

- The accompanying Checklist outlines the various presentations in Clinical Education & Laboratory Operations.
- It also identifies whether a topic has an associated review quiz and/or application activity.

2026 Special Topics Checklist – cont.

TOPICS IN CLINICAL EDUCATION & LABORATORY OPERATIONS			
ACTIVITY DESCRIPTIONS May 2026 Class			
	TOPIC	ACTIVITY	ACTIVITY DESCRIPTION
CLINICAL EDUCATION			
1	Education Principles and Domains of Learning	X	Guided written activity - Word.
2	Competency Based Education: Goals, Competencies, Learning Objectives	X	Objective writing worksheet - Word.
3	Testing – Written, Practical and Performance Evaluation	X	Guided written activity – fillable PDF.
5	Interprofessional Education (IPE) *	X #	<ul style="list-style-type: none"> In-person observation & assessment. Guided written activity.
6	Education & Research Presentation *	X	<ul style="list-style-type: none"> This is REQUIRED; NOT Optional. Deliver a PPT presentation per the guidelines in the respective Syllabus. Post final approved version to SP.
LABORATORY OPERATIONS			
8	Phlebotomy & Pre-Analytical Aspects of Laboratory Testing *	X #	<ul style="list-style-type: none"> MTS modules & videos Phlebotomist shadow Guided written activity
10	Introduction to Management	X	<ul style="list-style-type: none"> AMA Management Assessment Covey 7 Habits Profile Write a short reflection essay on what you learned about yourself.
12	Continuous Quality Improvement Process *	X	<ul style="list-style-type: none"> Policy/procedure review per syllabus. Objectives per syllabus.
15	Professional Awareness *	X	<ul style="list-style-type: none"> Laboratory professional organization review self-guided written activity.

- Recall the reverse side of the checklist provides specific descriptions of the application activities.
- It also has reminders via the yellow highlights of which topics have their own dedicated syllabus.
- You will be given hardcopy printouts of these syllabi during Week 26.
- Make sure you carefully read and follow their instructions.

2026 Special Topics Curriculum Process:

1. View **each** presentation posted in the Special Topics SharePoint site.
 - The format may be a simple PDF, narrated PPT and/or MP4 video.
 - Choose the one that best suits your learning style.
 - These are accessible for off-site, remote viewing 24/7.
2. Complete the review quiz for **each** presentation – **AFTER** viewing the presentation.
 - These are also accessible for off-site completion via your MTS account.
 - Quizzes cannot be reset.
 - The overall average scores from all quizzes will be factored into your Laboratory Operations grade for your MLS program transcript.

2026 Special Topics Curriculum Process – cont.

3. Complete the written activities using a Corewell device which allows full edit access to documents in your working folder.
 - Handwritten completion of activities will NOT be accepted as they are often difficult to read, sloppy and usually done last minute due to poor time management.
 - Again, most of the 2026 activities are now provided in fillable PDF format along with some in Word.
4. Complete the application activities per the progressive grading table in the 2026 syllabus.
 - It is highly recommended you complete as many activities as possible for better ASCP BOC exam readiness and career entry understanding of clinical laboratory services including corporate and regulatory requirements.

2026 Revisions – Clinical Education Activities

TOPICS IN CLINICAL EDUCATION & LABORATORY OPERATIONS

ACTIVITY DESCRIPTIONS

May 2026 Class

	TOPIC	ACTIVITY	ACTIVITY DESCRIPTION
	CLINICAL EDUCATION		
1	Education Principles and Domains of Learning	X	Guided written activity - Word.
2	Competency Based Education: Goals, Competencies, Learning Objectives	X	Objective writing worksheet - Word.
3	Testing – Written, Practical and Performance Evaluation	X	Guided written activity – fillable PDF.
5	Interprofessional Education (IPE) *	X #	<ul style="list-style-type: none"> In-person observation & assessment. Guided written activity.
6	Education & Research Presentation *	X	<ul style="list-style-type: none"> This is REQUIRED; NOT Optional. Deliver a PPT presentation <u>per</u> the guidelines in the respective Syllabus. Post final approved version to SP.

The 2026 changes include:

- A rework of the 2025 case and research topics into topic #6.
- Reassignment of IPE from #20 to #5.

2026 Lab Operations Activities

	LABORATORY OPERATIONS		
8	Phlebotomy & Pre-Analytical Aspects of Laboratory Testing *	X #	<ul style="list-style-type: none"> MTS modules & videos Phlebotomist shadow Guided written activity
10	Introduction to Management	X	<ul style="list-style-type: none"> AMA Management Assessment Covey 7 Habits Profile Write a short reflection essay on what you learned about yourself.
12	Continuous Quality Improvement Process *	X	<ul style="list-style-type: none"> Policy/procedure review per syllabus. Objectives per syllabus.
15	Professional Awareness *	X	<ul style="list-style-type: none"> Laboratory professional organization review self-guided written activity.
16	Writing Standard Operating Procedures (SOP's)	X	<ul style="list-style-type: none"> Guided written activity - Word.
17	Point of Care (Ancillary) Testing *	X #	<ul style="list-style-type: none"> Manager meeting will be scheduled during the Hematology Rotation. Refer to topic syllabus & complete objectives.
18	Laboratory Ethics *	X	<ul style="list-style-type: none"> Case review per syllabus.
19	Outreach & Client Service Operations *	X #	<ul style="list-style-type: none"> Each student group to arrange a meeting to interview the Customer Service Rep and/or Manager.

NOTE:

- These have NOT changed from 2025.
- Additional topics in Personnel and Financial Management will be added in 2026 as time permits.


Part II – Illustration of How to Complete the Application Activities


Application Activity Location & Completion:


1. A copy of each “application activity” is provided in **your individual student working** folder in the **LAB** SharePoint for **easy editing and completion using a Corewell device.**
2. The activities are provided in two sub-folders:
 - **Clinical Education**
 - **Laboratory Operations**
3. For 2026, most of the activities are now provided in **fillable-PDF format** while some remain in Word where beneficial (e.g., objectives).
4. You are expected to rename the activity with your **last name-topic-date** upon completion.
5. The next slides illustrate “exemplary” completion of these application activities from a November 2025 graduate.


2025 Student Folder – CHE-MLS LAB SharePoint


Student Folders - LAB > .06_2025_VanDenBrouck, Caroline


 Name ▾

 Blood Bank - LABORATORY


 Chemistry & Immunology - LABORATORY


 Hematology & Hemostasis - LABORATORY


 Microbiology & Molecular - LABORATORY

 Special Topics - ACTIVITY DOCUMENTS 2025.2 - UPDATE

Student Folders - LAB > .06_2025_VanDenBrouck, Caroline >

 Name ▾

 0 - Clinical Education Activities - 2025

 0 - Laboratory Operations Activities - 2025 (January update)

Clinical Education Activities – 2025 Student Example

CHE-MLS Program Students - LABORATORY

Private group

+ New Upload Edit in grid view Share Copy link All actions Forms New Add shortcut to OneDrive Download ... All t

... > .06_2025_VanDenBrouck, Caroline > Special Topics - ACTIVITY DOCUMENTS 2025.2 - UPDATE > 0 - Clinical Education Activities - 2025

Name	Modified	Modified By	File Size	+ Add column
6 - Case Study Evaluation_Advisors_2025_student version.pdf	June 27	Ramírez, Nancy E.	83.6 KB	
VanDenBrouck_01 - Education Principles and Learning Domains_ACTIVITY_9.8.25.docx	November 2	VanDenBrouck, Caroli	34.7 KB	
VanDenBrouck_02 - CBE_OBJECTIVE WRITING PRACTICE WORKSHEET_11.2.25.docx	November 2	VanDenBrouck, Caroli	40.7 KB	
VanDenBrouck_03 - Written and Practical Testing ACTIVITY_9.8.25.docx	November 2	VanDenBrouck, Caroli	38.5 KB	
VanDenBrouck_05 - Research Design_Journal Article Review_11.22.25.docx	November 22	VanDenBrouck, Caroli	45.8 KB	
VanDenBrouck_06 - Case of a Broken Heart Presentation_11.23.25.pptx	November 23	VanDenBrouck, Caroli	3.54 MB	
VanDenBrouck_06 - Case of a Broken Heart Recording_11.23.25.mp4	November 23	VanDenBrouck, Caroli	17.5 MB	
VanDenBrouck_06 - Case Study PDCA Action Plan_11.23.25.pdf	November 23	VanDenBrouck, Caroli	3.79 MB	
VanDenBrouck_20 - BM IPC Experience_10.14.25.pdf	October 14	VanDenBrouck, Caroli	5.42 MB	
VanDenBrouck_20 - IPA Instrument_10.14.25.pdf	October 14	VanDenBrouck, Caroli	888 KB	
Z. Case Study Presentation Requirements.docx	November 22	VanDenBrouck, Caroli	24.8 KB	
Z. Case Study Script.pdf	November 23	VanDenBrouck, Caroli	104 KB	

:lassic SharePoint

Clinical Education Activities

 VanDenBrouck_01 - Education Principles and Learning Domains_ACTIVITY_9.8.25.docx

 VanDenBrouck_02 - CBE_OBJECTIVE WRITING PRACTICE WORKSHEET_11.2.25.docx

 VanDenBrouck_03 - Written and Practical Testing ACTIVITY_9.8.25.docx

 VanDenBrouck_05 - Research Design_Journal Article Review_11.22.25.docx

 VanDenBrouck_06 - Case of a Broken Heart Presentation_11.23.25.pptx

 VanDenBrouck_06 - Case of a Broken Heart Recording_11.23.25.mp4

 VanDenBrouck_06 - Case Study PDCA Action Plan_11.23.25.pdf

 VanDenBrouck_20 - BM IPC Experience_10.14.25.pdf

 VanDenBrouck_20 - IPA Instrument_10.14.25.pdf

Note the uniform file naming that includes student last name, activity # and topic plus date completed.

This is requested for efficient transfer of the completed documents to the student's official program file in the Corewell document retention database - *OnBase*.

Example completion of a **Clinical Education Activity:** *Written & Practical Testing*

Caroline VanDenBrouck 7/21/25

Written and Practical Testing Application Activity

2023

This activity is divided into four parts modeled after the PowerPoint presentation:

- 1) Case Study Application
- 2) Written Test Writing Practice
- 3) Practical Test Writing Practice
- 4) Affective Performance Evaluation Practice

CASE STUDY APPLICATION

For your proposed Case Study topic (or a case on Iron Deficiency Anemia if you haven't chosen your case yet):

- A. Write a learning objective below for the audience in the Cognitive domain at **Taxonomy Level 1**.
Define Iron Deficiency Anemia along with symptoms and causes.
- B. Write a learning objective below for the audience in the Cognitive domain at **Taxonomy Level 2**.
Correlate iron study results with Iron Deficiency anemia.

Note the student's use of blue font to highlight her answers. 😊

Former 2025 Clinical Education Activities

TOPICS IN CLINICAL EDUCATION & LABORATORY OPERATIONS

ACTIVITY DESCRIPTIONS

November 2025 Class














NOTE:

The required Case Study has been replaced with a required Research presentation in 2026.












	TOPIC	ACTIVITY	ACTIVITY DESCRIPTION
	CLINICAL EDUCATION		
1	Education Principles and Domains of Learning	X	Guided written activity - Word.
2	Competency Based Education: Goals, Competencies, Learning Objectives	X	Objective writing worksheet - Word.
3	Testing – Written, Practical and Performance Evaluation	X	Guided written activity – fillable PDF.
5	Research Design and Evaluating Published Studies	X	<ul style="list-style-type: none">• Case: Journal article review checklist.• Note related articles of interest.
6	Case Study Presentations	X	<ul style="list-style-type: none">• Complete PDCA action plan with advisor.• Deliver a PPT presentation per guidelines in the Case Study Syllabus.• Post final approved version to SP.
20	Interprofessional Education (IPE)	TBD	<ul style="list-style-type: none">• TBD

Laboratory Operations Activities – 2025 Student Example

> .06_2025_VanDenBrouck, Caroline > Special Topics - ACTIVITY DOCUMENTS 2025.2 - UPDATE > 0 - Laboratory Operations Activities - 2025

 Name ▾	Modified ▾	Modified By ▾	File Size ▾	+ Add column
 VanDenBrouck_08 - Phlebotomy Observation Checklists_9.8.25.pdf	October 15	VanDenBrouck, Caroli	27.1 MB	
 VanDenBrouck_08 - Phlebotomy Self-Study Assignments_9.8.25.docx	October 15	VanDenBrouck, Caroli	29.9 KB	
 VanDenBrouck_08 - Venipuncture Training Checklist_9.8.25.pdf	October 15	VanDenBrouck, Caroli	4.01 MB	
 VanDenBrouck_10 - ACTIVITY_Intro to Management Basics_ACTIVITY_9.14.25.docx	October 18	VanDenBrouck, Caroli	34.6 KB	
 VanDenBrouck_10.1 - AMA Management Assessment Profile_Fillable PDF_9.14.25.pdf	October 14	VanDenBrouck, Caroli	220 KB	
 VanDenBrouck_10.2 - Covey_The-7-Habits-Profile-Score_Fill-In PDF_9.14.25.pdf	October 14	VanDenBrouck, Caroli	186 KB	
 VanDenBrouck_12 - QA-CQI Review Questions in Word from Syllabus_9.13.25.docx	October 15	VanDenBrouck, Caroli	57.8 KB	
 VanDenBrouck_15 - Professional Awareness Assignment_10.18.25.docx	October 18	VanDenBrouck, Caroli	28.2 KB	
 VanDenBrouck_16 - Standard Operating Procedures_ACTIVITY_10.18.25.docx	October 18	VanDenBrouck, Caroli	38.1 KB	
 VanDenBrouck_17 - POCT Learning Objectives_10.17.25.docx	October 17	VanDenBrouck, Caroli	26.7 KB	
 VanDenBrouck_18 - Laboratory Ethics Assignment_10.15.25.docx	October 15	VanDenBrouck, Caroli	25.7 KB	
 VanDenBrouck_19 - Client Services LOs and Interview_11.17.25.docx	November 18	VanDenBrouck, Caroli	27.0 KB	

Laboratory Operations Activities

-  VanDenBrouck_08 - Phlebotomy Self-Study Assignments_9.8.25.docx
-  VanDenBrouck_08 - Venipuncture Training Checklist_9.8.25.pdf
-  VanDenBrouck_10 - ACTIVITY_Intro to Management Basics_ACTIVITY_9.14.25.docx
-  VanDenBrouck_10.1 - AMA Management Assessment Profile_Fillable PDF_9.14.25.pdf
-  VanDenBrouck_10.2 - Covey_The-7-Habits-Profile-Score_Fill-In PDF_9.14.25.pdf
-  VanDenBrouck_12 - QA-CQI Review Questions in Word from Syllabus_9.13.25.docx
-  VanDenBrouck_15 - Professional Awareness Assignment_10.18.25.docx
-  VanDenBrouck_16 - Standard Operating Procedures_ACTIVITY_10.18.25.docx
-  VanDenBrouck_17 - POCT Learning Objectives_10.17.25.docx
-  VanDenBrouck_18 - Laboratory Ethics Assignment_10.15.25.docx
-  VanDenBrouck_19 - Client Services LOs and Interview_11.17.25.docx

Again, note the uniform file naming that includes student last name, activity # and topic plus date completed.

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Example completion of a **Laboratory Operations Activity:** *Standard Operating Procedures*

ACTIVITY

STANDARD OPERATING PROCEDURES - 2025

NAME: **Caroline VanDenBrouck**

DATE: **10/18/25**

DIRECTIONS:

1. Refer to the Corewell Health East (CHE) policy titled **Laboratory Document Management and Record Retention Procedure** that is posted in this topic folder (PDF download; last revised 9/27/2024).
2. Answer each item below within this Word document and post your written responses to your SharePoint workspace.
 - Note: Make sure to name your file: **Last Name-Topic-Month-Year**

QUESTIONS TO BE ANSWERED:

1. Define the following:
 - a. **Policy:** things that state what we do, when we should do it, and why we are doing it
 - b. **Procedure:** lists all of the steps for how to do something; usually performed by only one person
 - c. **Process:** describes the process of how something happens; usually involves more than one person
 - d. **Document:** anything that is written that provides management's instructions on how work is to be completed
 - e. **Form:** used to document what was done
 - f. **Record:** a form one it has been filled out to keep track of what was done

Note the student's use of blue font to highlight her answers. 😊

Former 2025 Lab Operations Activities

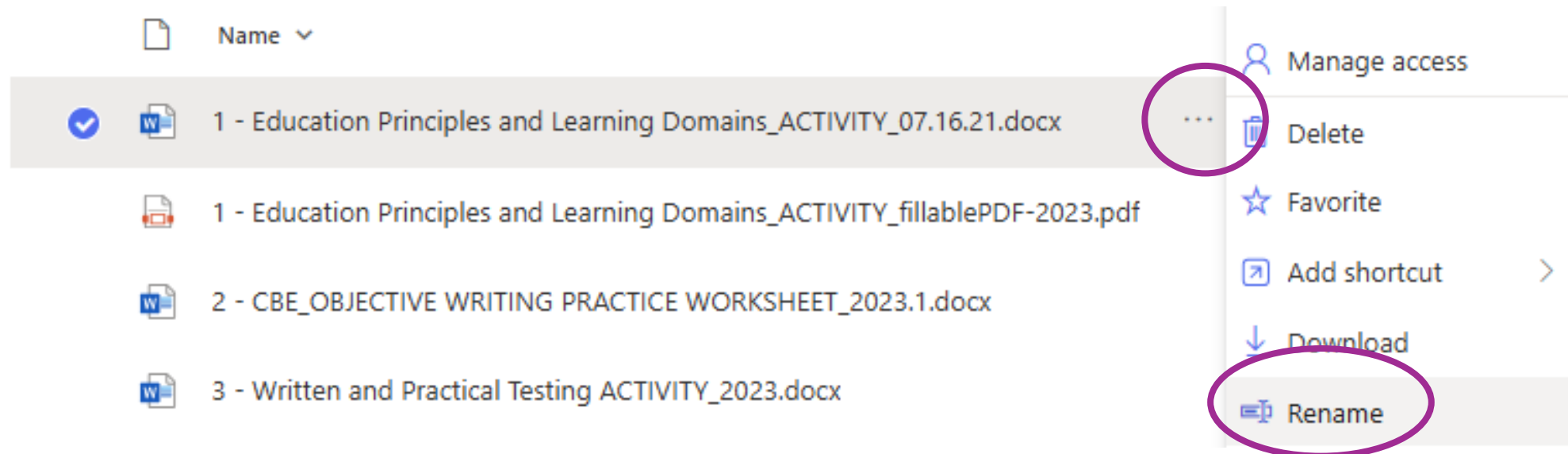
	LABORATORY OPERATIONS		
8	Phlebotomy & Pre-Analytical Aspects of Laboratory Testing *	X #	<ul style="list-style-type: none"> MTS modules Phlebotomist shadow Videos & <u>Guided</u> written activity
10	Introduction to Management	X	<ul style="list-style-type: none"> AMA Management Assessment Covey 7 Habits Profile Write a short reflection essay on what you learned about yourself.
12	Continuous Quality Improvement Process *	X #	<ul style="list-style-type: none"> Manager meeting will be scheduled during the Molecular lab rotation. RL Exercise & Objectives per syllabus.
15	Professional Awareness *	X	<ul style="list-style-type: none"> Laboratory professional organization review guided written activity.
16	Writing Standard Operating Procedures (SOP's)	X	<ul style="list-style-type: none"> Guided written activity - Word.
17	Point of Care (Ancillary) Testing *	X #	<ul style="list-style-type: none"> Manager meeting will be scheduled during the Hematology Rotation. Refer to topic syllabus & complete objectives.
18	Laboratory Ethics *	X	<ul style="list-style-type: none"> Case review per syllabus.
19	Outreach & Client Service Operations	X #	<ul style="list-style-type: none"> Interview Customer Service Rep. Each student group to arrange the meeting.

Conclusion & Reminders

- It is expected you will utilize the “Edit” access provided in your individual **LAB** SharePoint student folder to complete these application activities.
 - Tip: This will be easier by using a Corewell device in one of the MLS program student laboratories.
- As illustrated in these examples, it is very easy to complete the activity by simply typing your answers directly in the fillable PDF or Word document.
 - Tip: If the activity is a Word document, please assist the reviewer by changing the font color of your answers like our 2025 graduate. 😊

Conclusion & Reminders – cont.

- Lastly, please rename the file to include:
 - **Last Name - Activity Topic - Date**
 - This is simple to do by **right clicking the 3 dots** and selecting **Rename**.



Final Recommendations

- Learn to use SharePoint to your advantage to easily manage this curriculum component.
- Reread the 2026 curriculum syllabus for more further information and guidelines. And carefully follow the directions in the dedicated topic syllabi as well.
- Feel free to reach out with any questions about this curriculum component. Upcoming class meeting agendas will include this topic for further review and discussion s as well.
- Lastly, please complete the attestation in MTS confirming you have viewed this presentation.